(19)日本国特許庁 (JP)

(12) 公表特許公報(A)

(11)特許出願公表番号

特表平11-507150

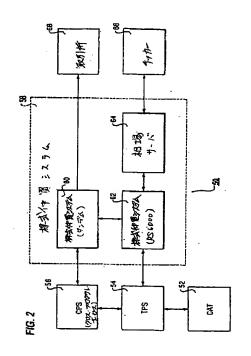
(43)公表日 平成11年(1999)6月22日

(51) Int.Cl. ⁵ G 0 6 F 19/00	識別記号	F I G 0 6 F	15/30	Z		
17/60				Α		
			15/21	Q	-	
		3 4 0 A				
		審查請求	未請求	予備審査 請求 有	(全 87 頁)	
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(86) (22)出顧日	平成8年(1996)6月7日		アメリ	カ合衆国 ニューヨー	ク州 10043	
(85) 翻訳文提出日	平成9年(1997)12月8日	ニューヨーク サード アヴェニュー				
(86) 国際出願番号	PCT/US96/08690	909、サーティー セカンド フロアー				
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(31)優先権主張番号	08/483, 710					
(32)優先日	1995年6月7日		イプ	30		
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(54) 【発明の名称】 利用者起動端末を通じて統合株式仲買取引等の金融サービスを提供するための方法とシステム

(57)【要約】

ATMネットワークを通じて株式仲買サービスを提供するためのシステムおよび方法を提供する。本発明は、現金支払い能力を有する複数のデータ端末を含み、前記データ端末を通じて利用者銀行口座からの現金の引き出しおよび銀行口座間の振替を含む複数の金融サービスを利用者に提供するATMネットワークと、前配少なくとも1つのホスト・システムを通じて前配ATMに機能的に接続された株式仲買システムとを含み、該株式仲買システムが、利用者銀行口座に対応する記録を管理するための手段と、前記データ端末によってなされた要求に応じて証券価格情報を得るための手段と、前記データ端末によってなされた要求に応じて証券価格情報を得るための手段と、前記データ端末によってなされた要求に応じて利用者の代わりに保有する証券を売買するための手段とを含む。



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G06F 157/00		(11) International Publication Number	WO 96/41293
		(43) International Publication Date:	19 December 1996 (19.12.96)

(21) International Application Number:

PCT/US96/08690

(22) International Filing Date:

7 June 1996 (07.06.96)

(30) Priority Data:

08/483,710

7 June 1995 (07.06.95)

US

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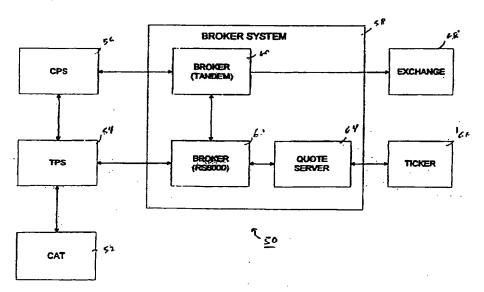
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(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TI, TT, UA, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: METHOD AND SYSTEM FOR PROVIDING INTEGRATED BROKERAGE AND OTHER FINANCIAL SERVICES THROUGH CUSTOMER ACTIVATED TERMINALS



(57) Abstract

A method and system (50) for providing integrated financial services including brokerage services through an ATM network permits trading of securities, portfolio evaluation, security price evaluation and brokerage account inquiries. The invention utilizes a familiar customer interface, a standard ATM (52) or a customer activated terminal, to provide brokerage functions with a network conventionally used to perform traditional banking functions. The system and method (50) according to the invention provides for trading of a wide variety of publicly traded security by linking the customer to a brokerage system (58). Provisions are further made for obtaining real time price quotations for up-to-the-minute portfolio evaluation and accurate buy and sell orders.

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locations. More recently, the trend is toward increased automation of customer banking transactions primarily through use of automatic teller machines (ATMs). On the other hand, many brokerage services are often initiated by direct customer-broker contact, for example, over the telephone or by facsimile. Once an order is received, the brokerage company performs the requested service, such as buying or selling a particular security at the appropriate exchange.

10 For many customers, dealing with a service provider in person can prove to be burdensome. For instance, in order to buy a particular security, the customer will generally verify the current selling price of a security to be purchased and then contact a broker to request that the purchase be made. One or both of these steps introduces a time lag which may result in the transaction failing to go through as intended by the customer.

Recent technological developments have somewhat 20 improved brokerage services. In particular, improved communications methods have made it easier for a customer to contact a broker to place an orders or to obtain information. Other new methods have also made it easier for the broker to implement orders and to obtain up-todate information regarding security prices. For example, U.S. Patent Nos. 4,376,978, 4,597,046 and 4,774,663 describe a system for supervising a margin securities account wherein the system verifies various account activities, such as check cashing, and determines 30 available credit so as to maintain free credit cash in one or more short term accounts. U.S. Patent No. 4,674,044 describes an automated securities trading system. U.S. Patent No. 5,270,922 describes a system for providing financial information such as market ticket, 35 quotation and news information.

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which does not interfere with a customer's ability to distinguish between brokerage transactions and such other financial services.

In fulfillment of these various objects and others, disclosed is an integrated financial system comprising an automated teller machine for providing a customer interface to the financial system. automated teller machine includes processor means, input means for receiving customer information from a customer, display means for displaying information to the customer, 10 and a dispenser mechanism, wherein the processor means receives the customer information and controls the display and the dispensing mechanism. The system also includes first communication means for remote transmission of first data from the automated teller 15 machine to a front end processor system. The front end system is coupled to the first communication means and interprets the data from the automated teller machine. It provides data to the automated teller machine whereby the front end processor system controls a plurality of customer interactive processes implemented through the automated teller machine processor means. The system also includes second communication means for transmission of third data from the front end processor system and a brokerage system. The brokerage system receives data 25 from the front end processor system through the second communications means and provides fourth data thereto. The brokerage system maintains a record corresponding to a brokerage account, which includes indicia of the number and type of securities held on behalf of the customer. 30 Further, the brokerage system receives trade orders from the customer through the automated teller machine and the front end system and places orders to implement the orders.

According to a feature of the invention, the integrated system further includes a quotation system for

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options available through the system. If it is determined that a brokerage account is available, the customer's account information is reviewed to determine whether the customer has multiple brokerage accounts. so, the system determines which account the customer desires to access by displaying all accounts and prompting the customer to select an appropriate account for which a transaction is to be requested. A portfolio profile message is displayed to the customer indicating 10 the assets included in the selected account. accomplished by the system consulting a file containing information regarding the customer's brokerage account. The front end system then determines whether the brokerage system is available. If not, a message 15 indicating that trading is not presently available 24 hours a day, seven days a week is displayed. example, the system displays a message such as, "I'm sorry, I can't place trades for you from TIME A to TIME B business days and TIME C Sunday to TIME D Monday", where 20 A to D are system variables representing times of the day. The customer is then returned to a previous option menu.

On the other hand, if it is determined that the brokerage system is available, the front end system 25 queries the brokerage system to determine if trading is currently restricted in any respect. For example, the front end system determines whether there are no restrictions on trading, whether only selling is available, or whether no trading whatsoever is permitted based on a data element from the brokerage system. 30 the latter case, an appropriate message such as "no trades are now allowed" is displayed and the customer is returned to a previous options menu. On the other hand, if buying and/or selling is permitted, either the buying stocks process shown at Figs. 5A to 5D, or the selling stocks option shown at Figs. 6A to 6C are implemented.

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If no problems occur, the customer's "sell" order is confirmed. The customer is then returned to an earlier options menu for further actions.

In accordance with this method, a customer may obtain current securities price information and current portfolio value, buy securities and/or sell securities without directly contacting a broker. The customer may further obtain standard banking functions such as balance inquiries, transfers, deposits and withdrawals, all at the same location. The system according to the invention thus provides most standard brokerage functions within an environment already familiar to the customer.

2. <u>Second Embodiment (Figs. 16-21)</u>

15 A second embodiment of the invention is now described with reference to Figs. 16 to 21. As set forth in more detail below, this system permits a customer not only to trade stocks and bonds through an ATM network, but also to perform functions relating to mutual funds. 20 More specifically, the system keeps track of the following information: the status of a particular fund, for example, whether it is open to all purchasers or only to current holders; the availability of more than one fund in a fund family; the existence of any exchangeable sub-group of funds in a fund family; any breakpoint of a fund and the amount; any minimum amount for first time purchases, IRA purchases, or any higher minimum amount set by the broker system; load information, such whether any front end or back end loads exist; any maximum transaction fees for purchase, redemption or exchange of 30 no load funds; any redemption fees for front end load funds; any redemption restrictions; any promotions available on purchases and, if applicable, the promotion start and end dates; the availability of any hourly 35 trading; any per day fund purchase maximum, and if applicable, the amount; and the minimum amount of in a

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customer's account in order to make a purchase. This information is maintained in records stored in a front end system and/or a brokerage system. Data elements representing this information is transmitted between these systems and to a customer using a CAT. These features and others are made apparent from the following description.

Fig. 16 is a top-level flowchart for accessing a "securities" option in accordance with the second embodiment of the invention. As shown, the system 10 determines whether it is the customer's first time accessing the securities option in a particular session. If so, a securities disclosure screen is provided to the customer in a manner similar to that described with regard to Fig. 3. The customer then is provided a securities menu, which instructs the customer to either "get information" or to "take action". The "get information" process is described below with reference to Fig. 21. The "take action" process continues as shown in 20 Fig. 17.

As shown in Fig. 17, the user is given the option of selecting one of three options: a "buy" option, a "sell" option, and an "exchange" option. exchange process continues as described below in 25 reference to Fig. 20A. If either the "buy" or "sell" options are selected, the system determines which type of security the customer wishes to buy or sell. Specifically, the customer is given the option to buy or sell stocks, mutual funds, or funds offered through a company affiliated with the bank (that is, a family of 30 funds from an affiliated company). The latter option involves a process similar to the one referred to in the background of the invention. Selection of the first option, that is, the selection of trading stocks, results in a process similar to that described in reference to 35 Figs. 5A-5D and 6A-6C of the first embodiment of the

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system indicates that the order has been placed and the customer may then return to an earlier options menu.

The process for exchanging mutual funds is illustrated in the flowcharts of Figs. 20A-20C. As shown in Fig. 20A, it is first determined whether the customer has any saleable funds. If not, an appropriate message is displayed to the customer who may then return to a previous options menu. If the customer has at least one saleable fund, the customer's saleable funds are displayed, and the customer is prompted to select a fund 10 from which an exchange is to be made. Once a "from" fund has been selected, the system determines whether any other funds in the fund family are available for exchange. If not, a message is displayed indicating that the selected fund is the only fund in the family. 15 other funds are available, a list is displayed for the customer to select from.

Once the customer indicates a particular fund as a "to" fund, the system determines whether the NAV of the "from" fund is greater than zero. If not, an appropriate message is displayed and the customer is asked to contact a consultant. If the NAV is greater than zero, then the system determines whether the "from" fund has an open order to be fully liquidated. If so, the system displays the outstanding order to liquidate and the customer is returned to an earlier options menu.

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If meeting the previously described criteria, the system then determines whether the "to" fund is already owned by the customer. If not, the system determines whether the customer is eligible to proceed. If not eligible to proceed, a message is displayed indicating that the customer should contact an appropriate consultant. If configured for new funds, the customer is asked whether a prospectus for the selected "to" fund has been received. If so, the customer may

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proceed. If not, the customer is informed that a prospectus is required.

Once these steps have been performed, the system determines whether the "to" fund has a front-end load associated with it. If not, the process continues as shown in Fig. 20B. If a front-end load is applicable, the system determines whether the load on the "to" fund is greater than the load on the "from" fund. If not, the process continues as shown in Fig. 20B. If the load on 10 the "to" fund is greater than the "from" fund, then the system determines whether the fund is priced hourly. system then displays the net load or fees which are applicable based on the hourly-updated price or the last available price, and the customer is given the option of continuing.

As shown in Fig. 20B, the user is prompted to indicated whether to exchange by full redemption or by a dollar amount. If full redemption is indicated, the system determines whether the customer has previous open 20 orders or whether any restriction exists for the "from" fund. In either case, a message is displayed indicating that the transaction cannot proceed. If neither condition is met, then the system determines whether the requested transaction is the initial purchase for the 25 fund. If so, then the system determines what the customer wishes to do with dividends and capital gains earned; for example, whether to reinvest these amounts or to transfer to another account. The system also determines whether the customer has a full-service account and, if so, whether the requested transaction was made after consultation. The process then continues as shown in Fig. 20C.

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If the customer indicates a dollar amount for exchange, the system determines whether the amount is more than the total amount held by the customer, whether the amount is less than a 90 percent (90%) total holdings

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limit, and whether the requested amount is within system parameters. For example, the system determines whether the requested amount exceeds a daily maximum or a daily minimum and, if so, displays the applicable limits. If all such criteria are met, the process continues as shown in Fig. 20C.

In Fig. 20C, the system next determines whether any similar order has been made. If not, a recap of the requested exchange is displayed to the customer and a 10 confirmation is requested. If the customer cancels the transaction, the system confirms the cancellation and the customer may then return to another options menu. confirmation is provided, the system determines whether certain criteria are met. These include whether it is necessary to contact a consultant, whether confirmation had not accurately been received, whether the system is unavailable at that time, and whether the brokerage system is down. If these criteria are met, the system indicates that the order has been placed. 20

If a similar order was discovered, the system calculates whether enough shares would be left over after the similar order had been placed. If not, the customer is informed of the possible insufficient funds and is given the option of returning to an earlier options menu.

If there are enough funds to cover both transactions, the customer is informed of each possible duplicate order. Once all possible duplicates have been reviewed, the customer may then proceed with the transaction upon providing an appropriate confirmation.

According to these processes, the method and system according to the second embodiment permits one to buy sell or exchange mutual funds. Moreover, the customer is informed of applicable fees and any promotional offers. As indicated, these transaction are performed in compliance with applicable regulatory provisions.